WHAT IS CLAIMED IS:

1. An image processing apparatus, comprising:

an index computing unit configured to compute motion functional indices of a particular organ from volume data of a subject including said particular organ;

a polar map generating unit configured to generate a polar map by developing said indices on a polar coordinate system;

an image generating unit configured to generate, from said volume data, an image related to a structure of one of said particular organ and a peripheral organ developed on the polar coordinate system;

a fusing unit configured to fuses said image into said polar map; and

a display unit configured to displays a polar map fused with said image.

2. The image processing apparatus according to claim 1, wherein said particular organ is a heart, said motion function is a contraction rate of a myocardium, and said peripheral organ is a coronary artery.

3. The image processing apparatus according to claim 2, wherein said polar coordinate system is expressed by an angle about a myocardial axis of the heart, and a distance from one of an apex and a base of the heart.

4. The image processing apparatus according to

claim 2, wherein said coronary artery is searched through a range within a certain distance from an outer wall of the myocardium.

5. The image processing apparatus according to claim 1, further comprising an image generating unit that generates, from said volume data, an image related to a plane passing an arbitrary point on said image being displayed.

6. The image processing apparatus according to claim 2, further comprising an image generating unit that generates, from said volume data, an image related to a plane passing an arbitrary point on said image of the coronary artery.

7. The image processing apparatus according to claim 6, wherein said plane is parallel to said myocardial axis of the heart.

8. The image processing apparatus according to claim 6, wherein said plane is perpendicular to said myocardial axis of the heart.

9. The image processing apparatus according to claim 6, wherein said plane is curved along said coronary artery.

10. An image processing method, comprising:

computing motion functional indices of a particular organ from volume data of a subject including said particular organ;

generating a polar map by developing said indices on a polar coordinate system;

generating, from said volume data, an image related to a structure of one of said particular organ and a peripheral organ developed on the polar coordinate system;

fusing said image into said polar map; and

displaying a polar map fused with said image.

11. The image processing method according to claim 10, wherein said particular organ is a heart, said motion function is a contraction rate of a myocardium, and said peripheral organ is a coronary artery.

12. The image processing method according to claim 11, wherein said polar coordinate system is expressed by an angle about a myocardial axis of the heart, and a distance from one of an apex and a base of the heart.

13. The image processing method according to claim 11, wherein said coronary artery is searched through a range within a certain distance from an outer wall of the myocardium.

14. The image processing method according to claim 10, further comprising generating, from said volume data, an image related to a plane passing an arbitrary point on said image being displayed.

15. The image processing method according to claim 11, further comprising generating, from said

volume data, an image related to a plane passing an arbitrary point on said image of the coronary artery.

16. The image processing method according to claim 15, wherein said plane is parallel to said myocardial axis of the heart.

17. The image processing method according to claim 15, wherein said plane is perpendicular to said myocardial axis of the heart.

18. The image processing method according to claim 15, wherein said plane is curved along said coronary artery.

19. An X-ray computed tomographic apparatus, comprising:

a data acquiring unit configured to acquire projection data of a subject;

a reconstructing unit configured to reconstruct one of multi-slice data and volume data based on said projection data;

an index computing unit configured to compute motion functional indices of a particular organ from one of said multi-slice data and said volume data;

a polar map generating unit configured to generate a polar map by developing said indices on a polar coordinate system; and

a display unit configured to display said polar map.

20. The X-ray computed tomographic apparatus

according to claim 19, wherein said reconstructing unit reconstructs an X-ray CT image.